
Module cable routing

Cables can be routed internally in the module horizontally in front and at the rear of the card cage, vertically on the right side only, and vertically through square holes near the rear of the module (refer to [Figures 1](#) and [2](#)). The gray areas in the figures indicate the areas where cables can be routed.

Cables are routed externally in the back of and on the left and right side of the module between the EMI/RFI I/O panel and the rear cover. The cables may be routed in these channels up to the top of the column or down to the floor through the pedestal. Routing cables on the inside of a module from the front to the back on the left or power supply side is not recommended, due to the limited access in routing the cables and to the effects of EMI/RFI noise generated in this area to signals in the cables.

A typical routing scenario from the faceplate of a printed circuit pack (PCP) to one of the I/O panels is as follows:

- 1 The cable comes off the faceplate of a PCP and drops down into the front horizontal cable trough.
- 2 The cable is routed to the right side of the module in the horizontal cable trough to the vertical cable trough.
- 3 The cable is routed to the back of the module and into the rear horizontal cable trough.
- 4 The cable is routed to the left or right I/O panel at the rear of the module.

When connecting two half-group networks together, the cables are routed vertically through the square holes in the rear horizontal cable trough.

All other internal vertical cable routing from one module to another should be done only in the right vertical cable trough.

Figure 1
Top view of module cabling troughs

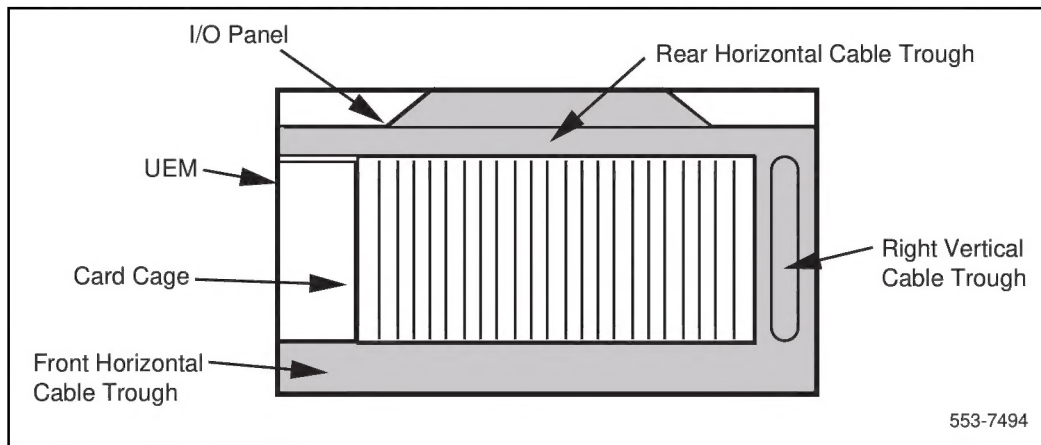
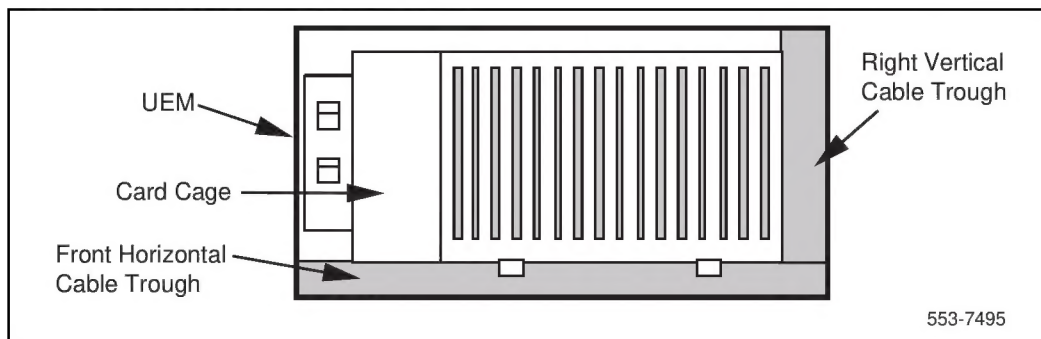
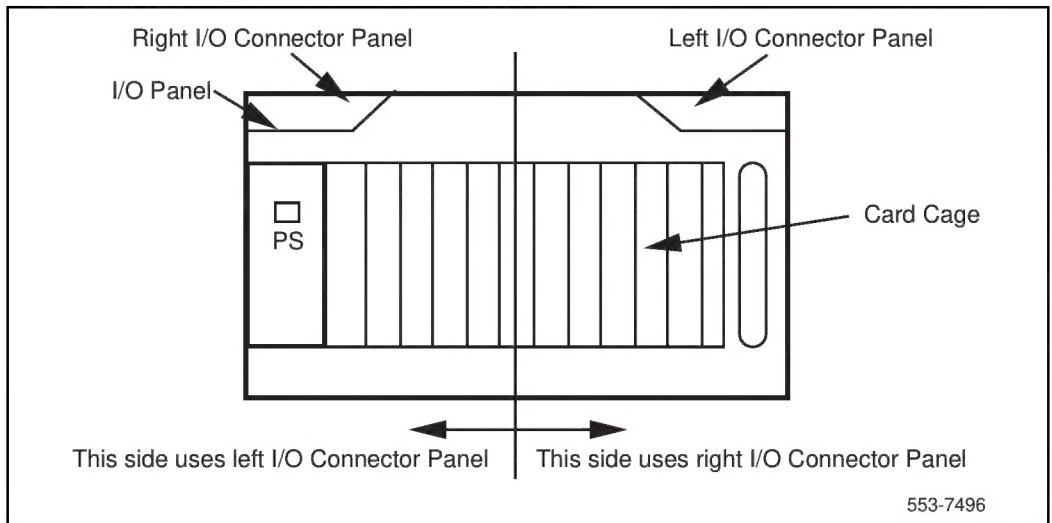


Figure 2
Front view of module cabling troughs



Since all faceplate to I/O panel cables are the same length and the card position in the card cage can vary, a cable may contain excess slack in some of the configurations. It is therefore recommended that cables from cards in the left side of the card cage use the right I/O panel and cables from cards in the right side of the card cage use the left I/O panel whenever possible, as shown in [Figure 3](#).

Figure 3
Top view of front to I/O connector panel routing



It is recommended that whenever possible the 90° connector end of the cable be used to route the cable through a module or cabinet instead of the 180° end since some openings are small (see [Figures 4](#) and [5](#)). Cables should also be routed top to bottom as gravity will help ease installation.

Figure 4
90° cable connector

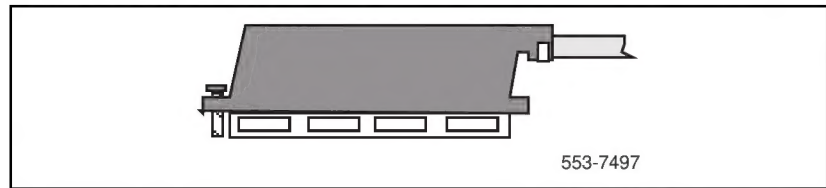


Figure 5
180° cable connector

